REPLACEMENT DRAWING 1/50

Attorney Docket No. 01/21603
Title: A POLYPEPTIDE HAVING...

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Fig. 1

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REPLACEMENT DRAWING 2/50

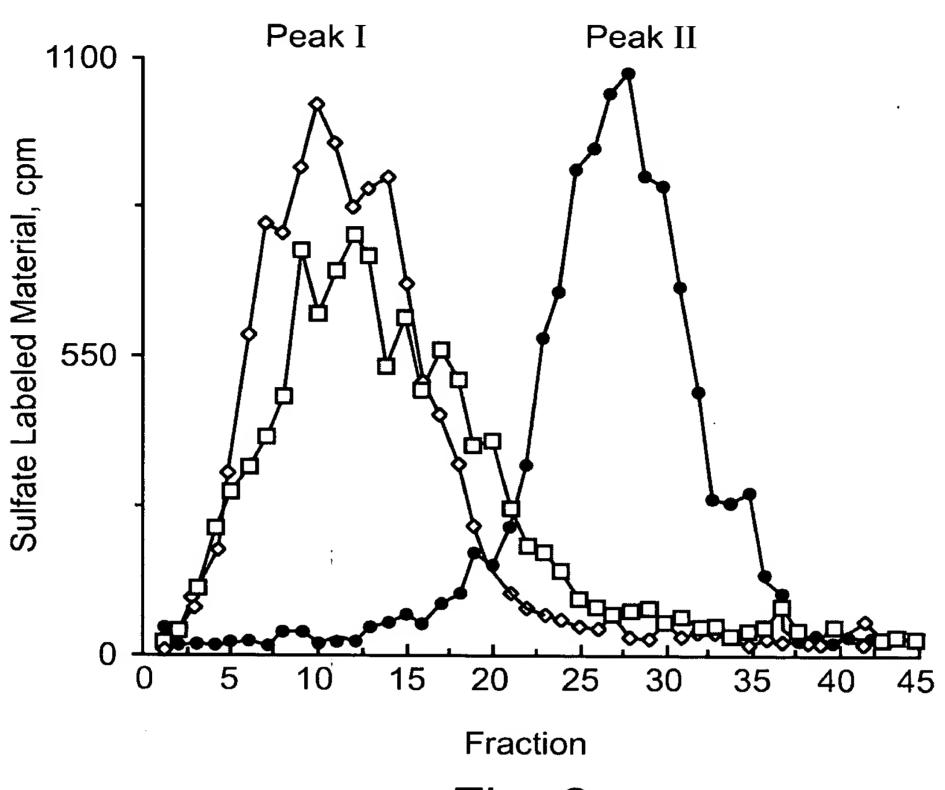
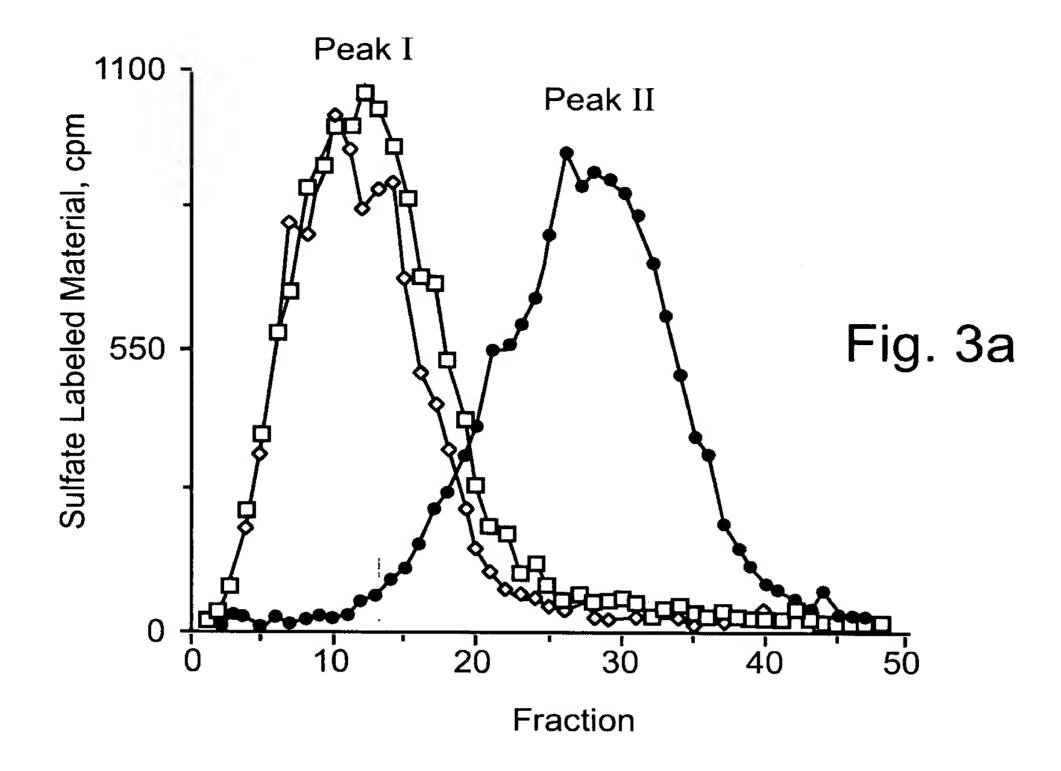
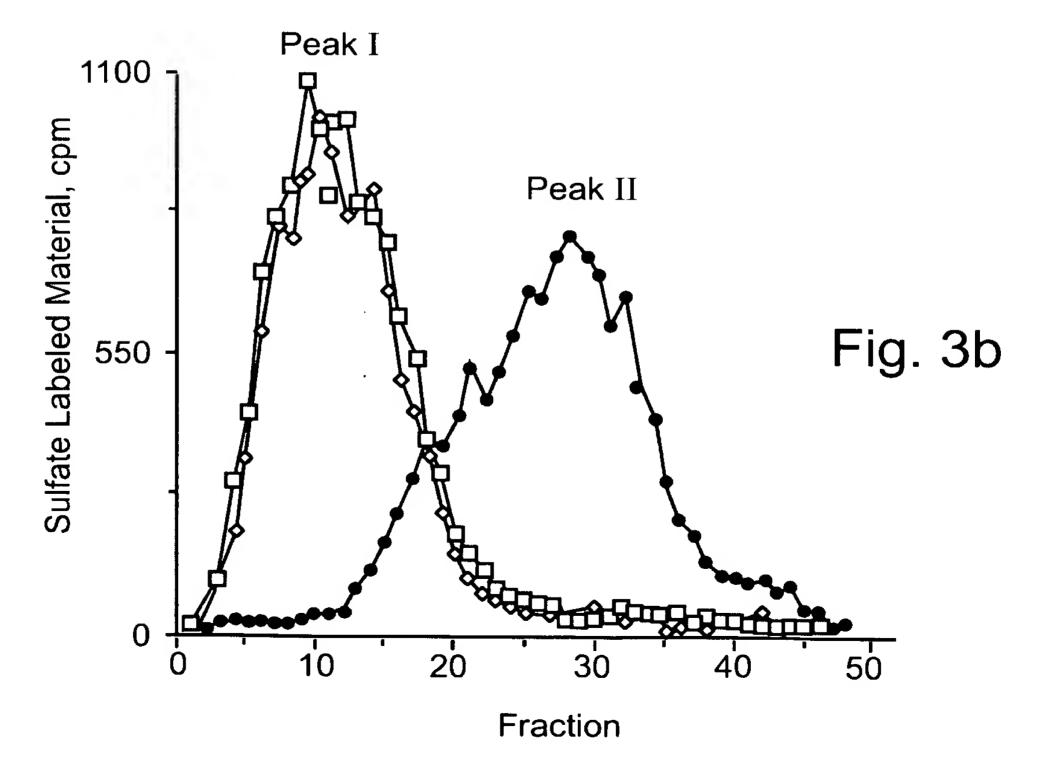
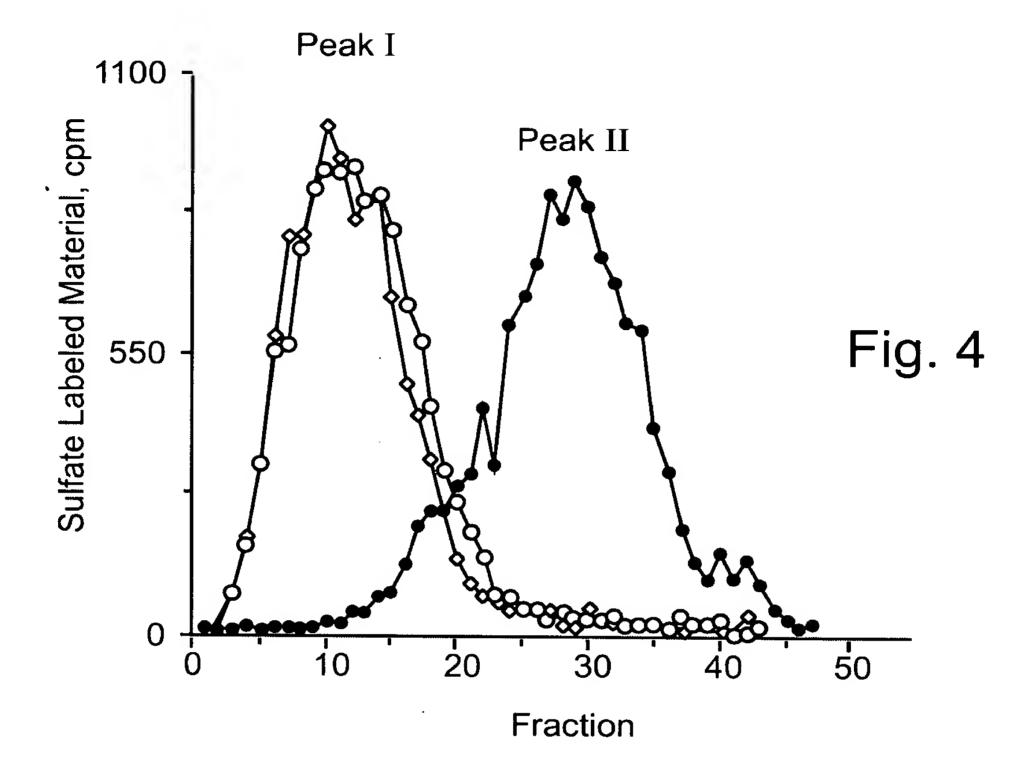
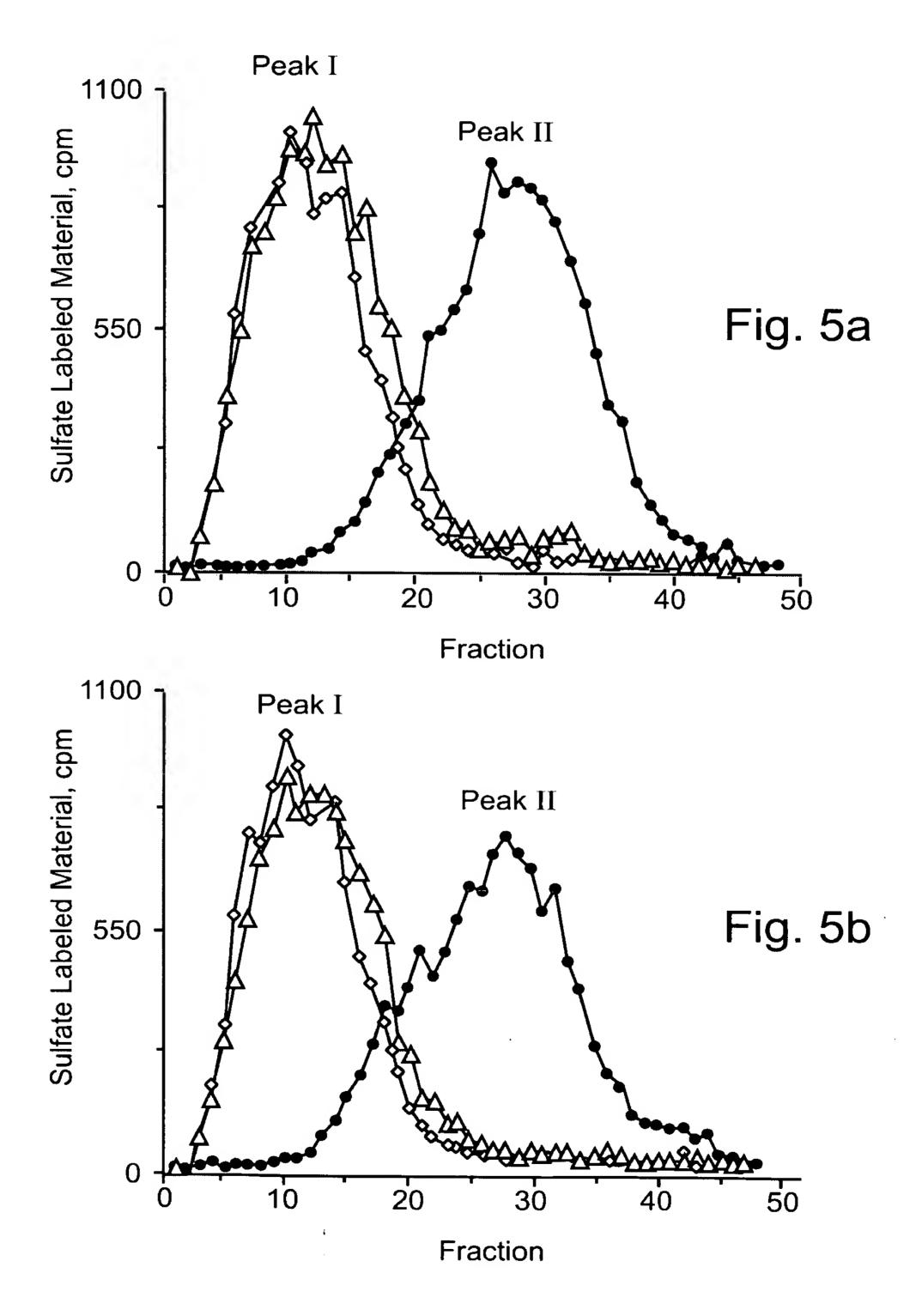


Fig. 2

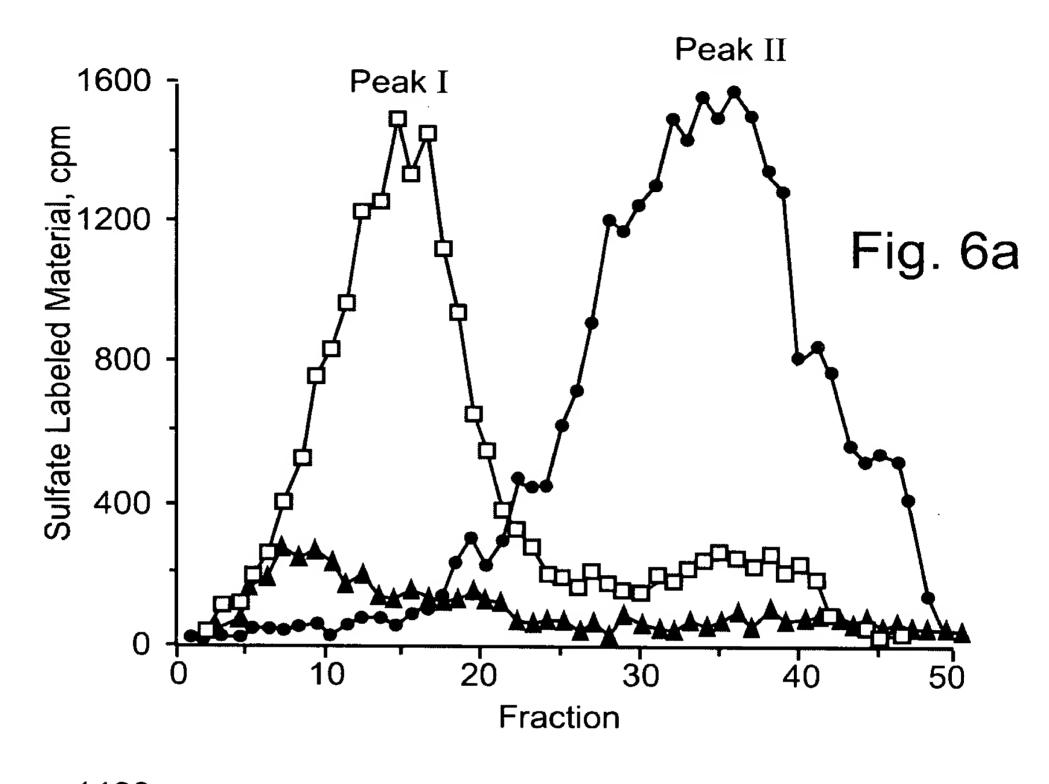


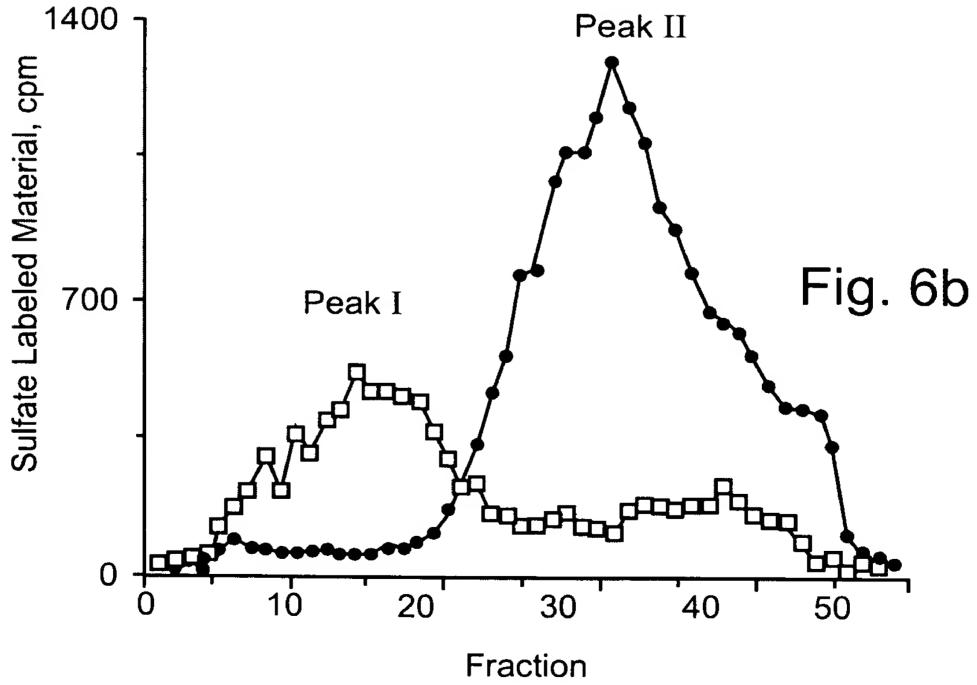




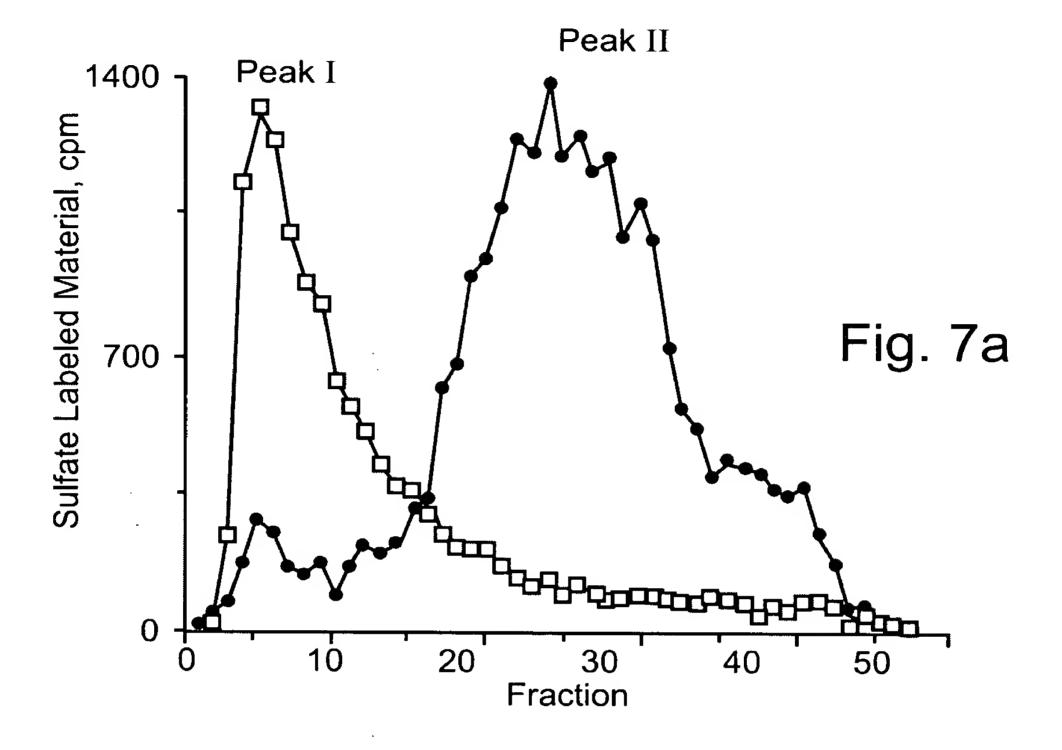


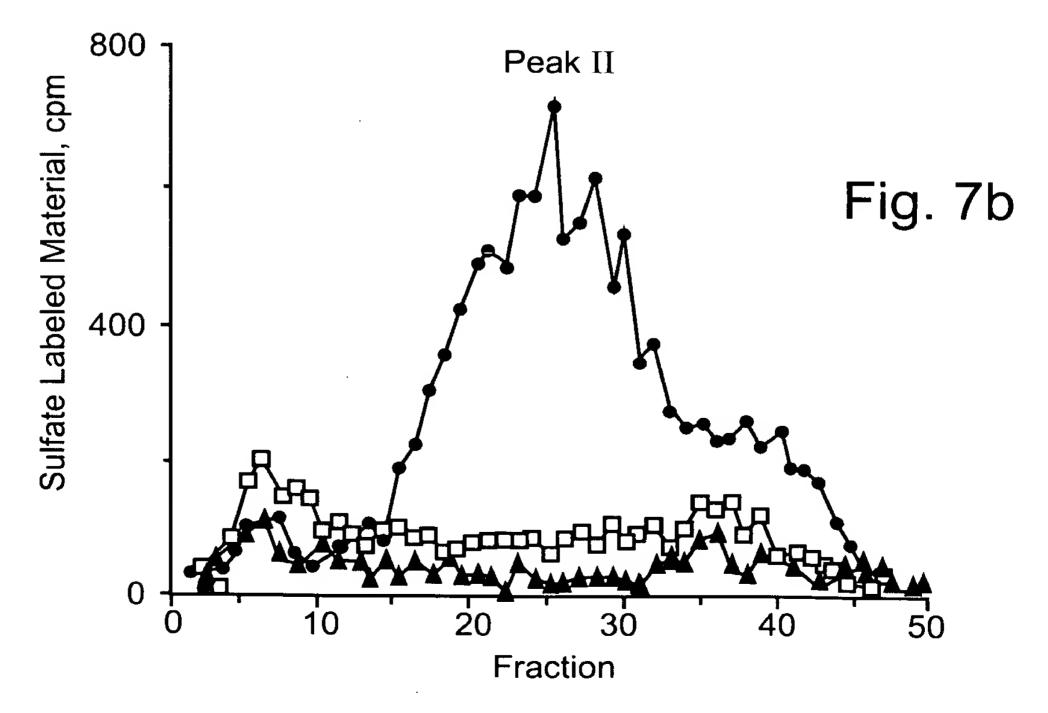
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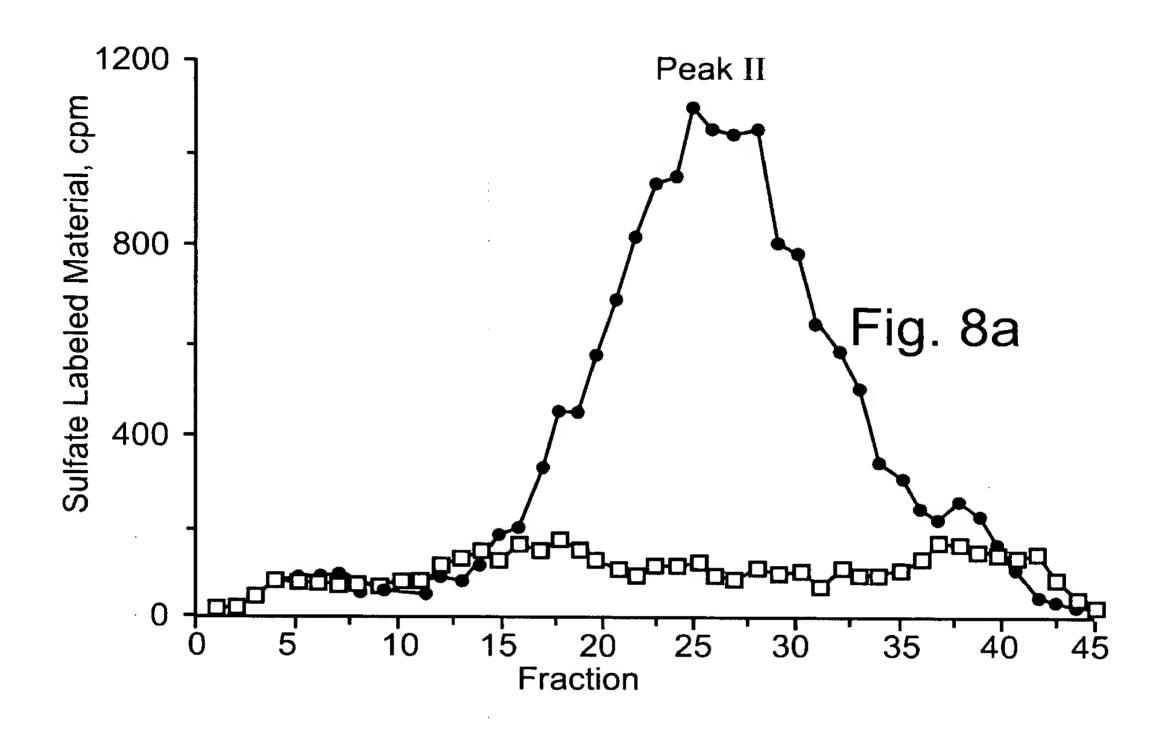


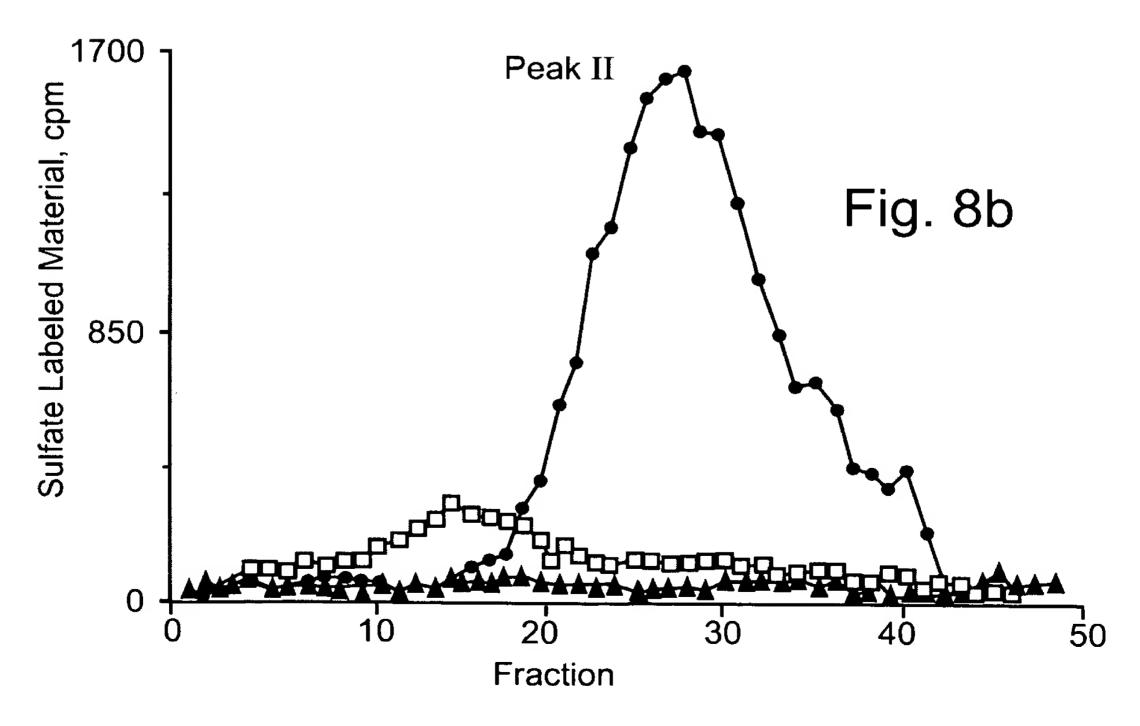


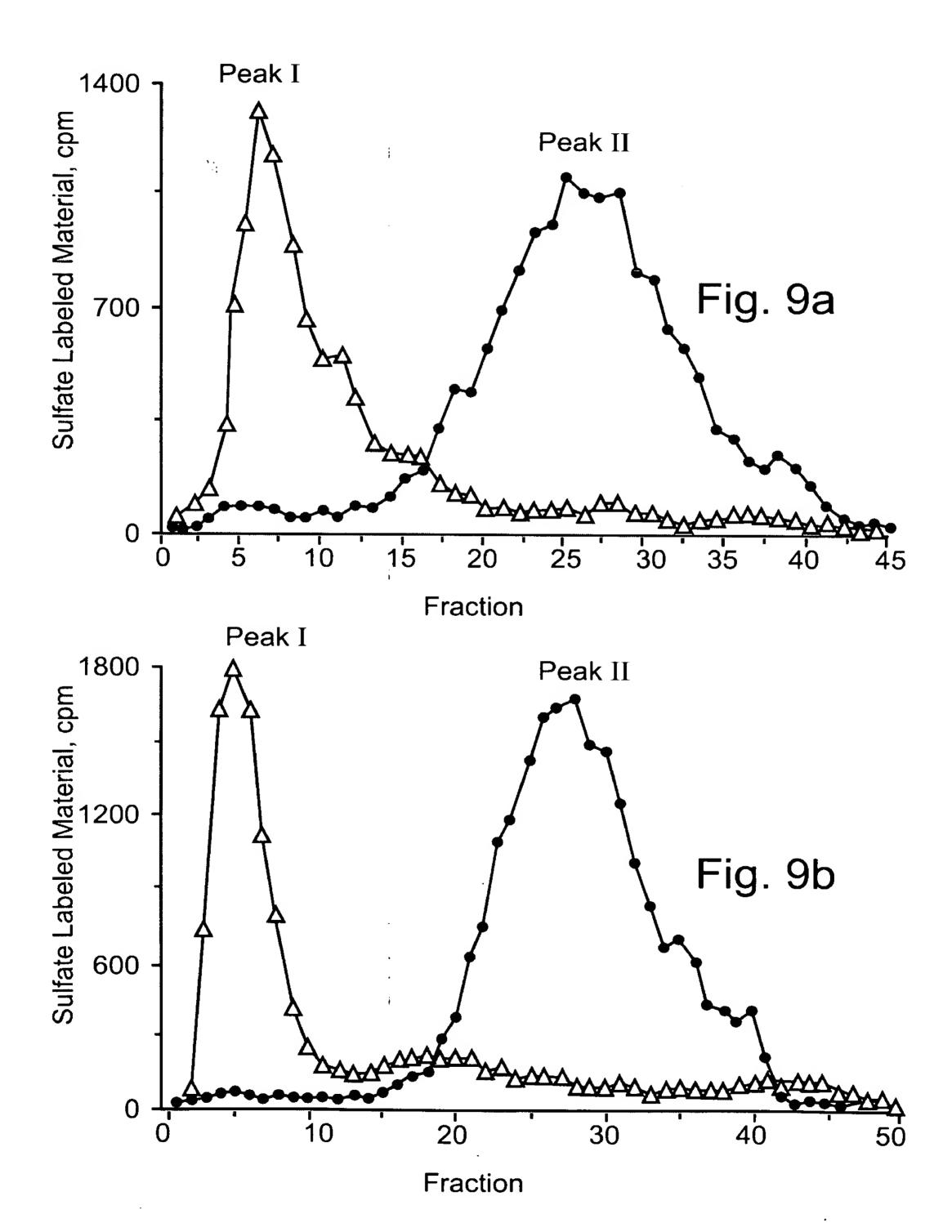
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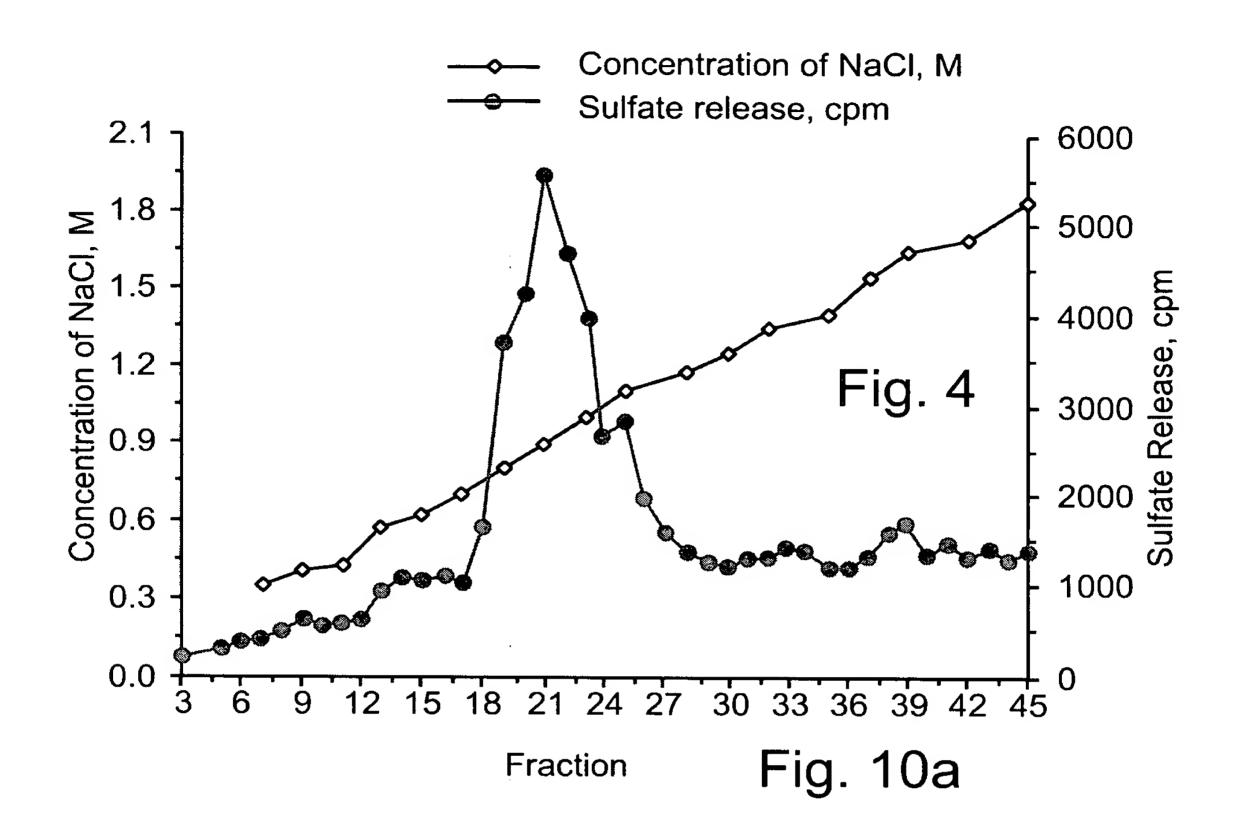












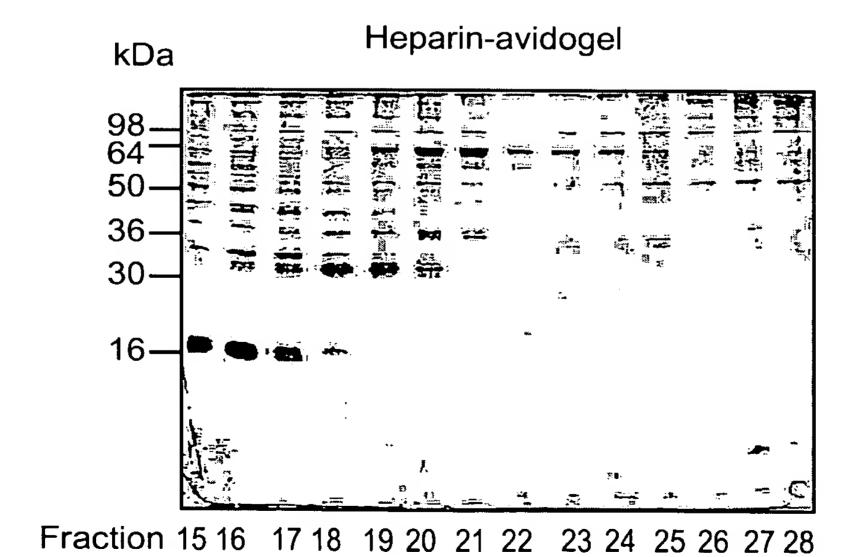
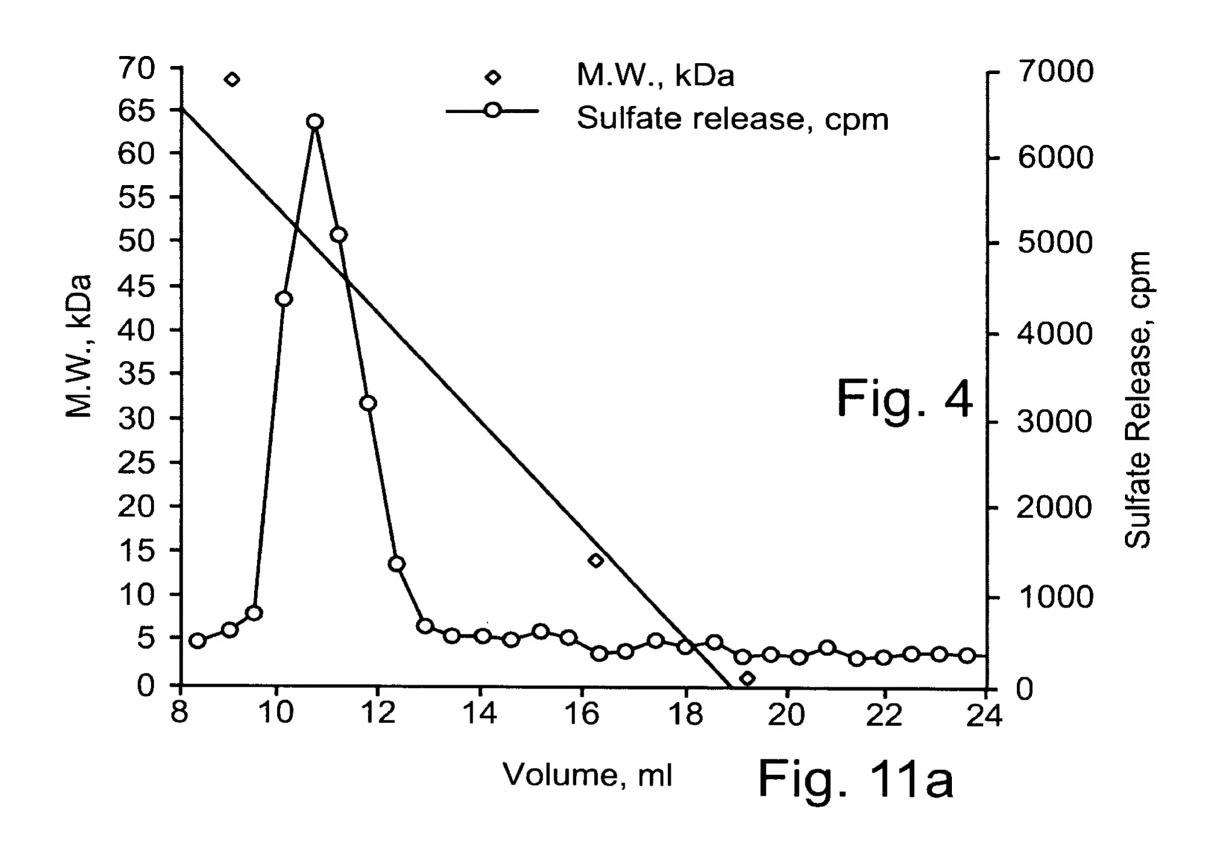
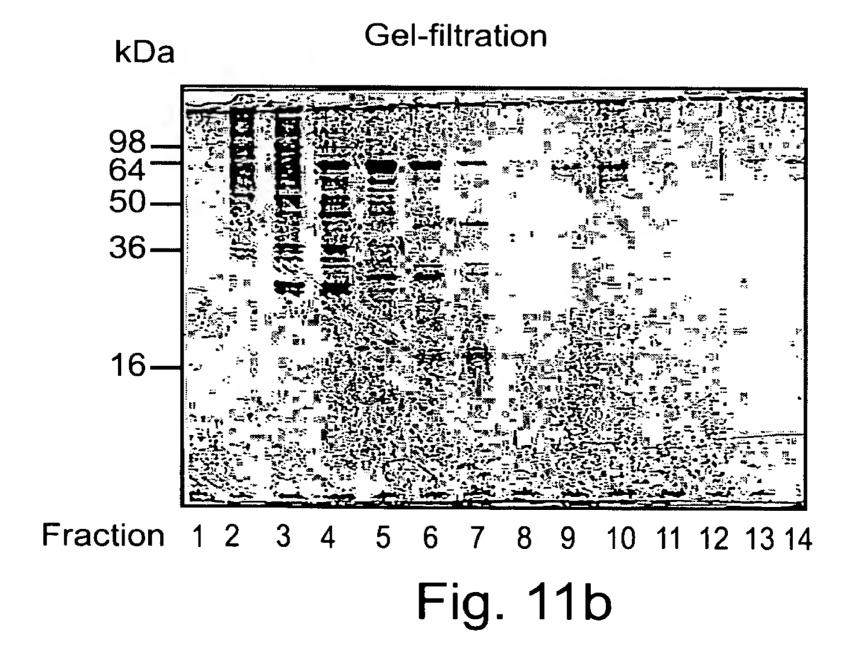
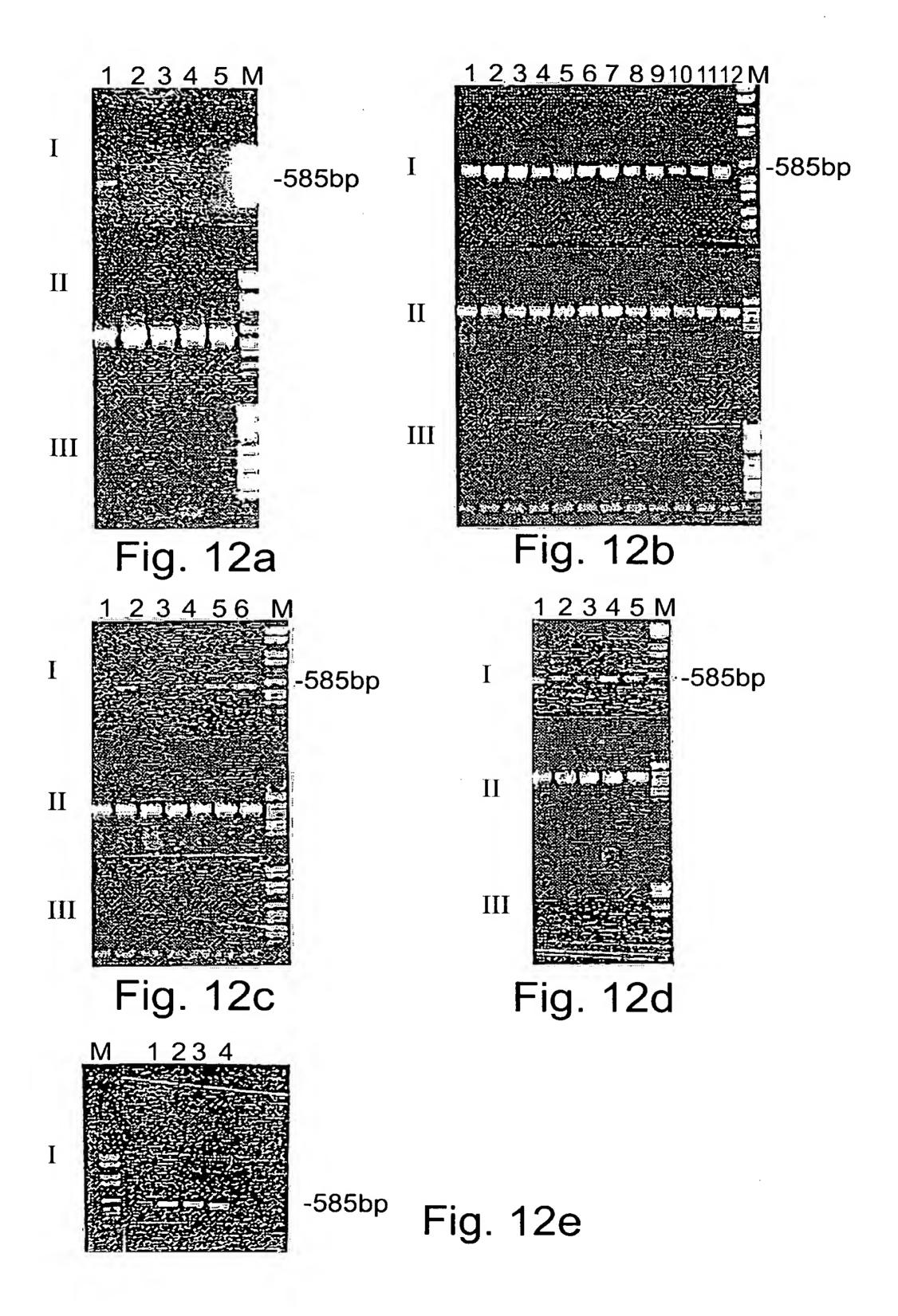


Fig. 10b

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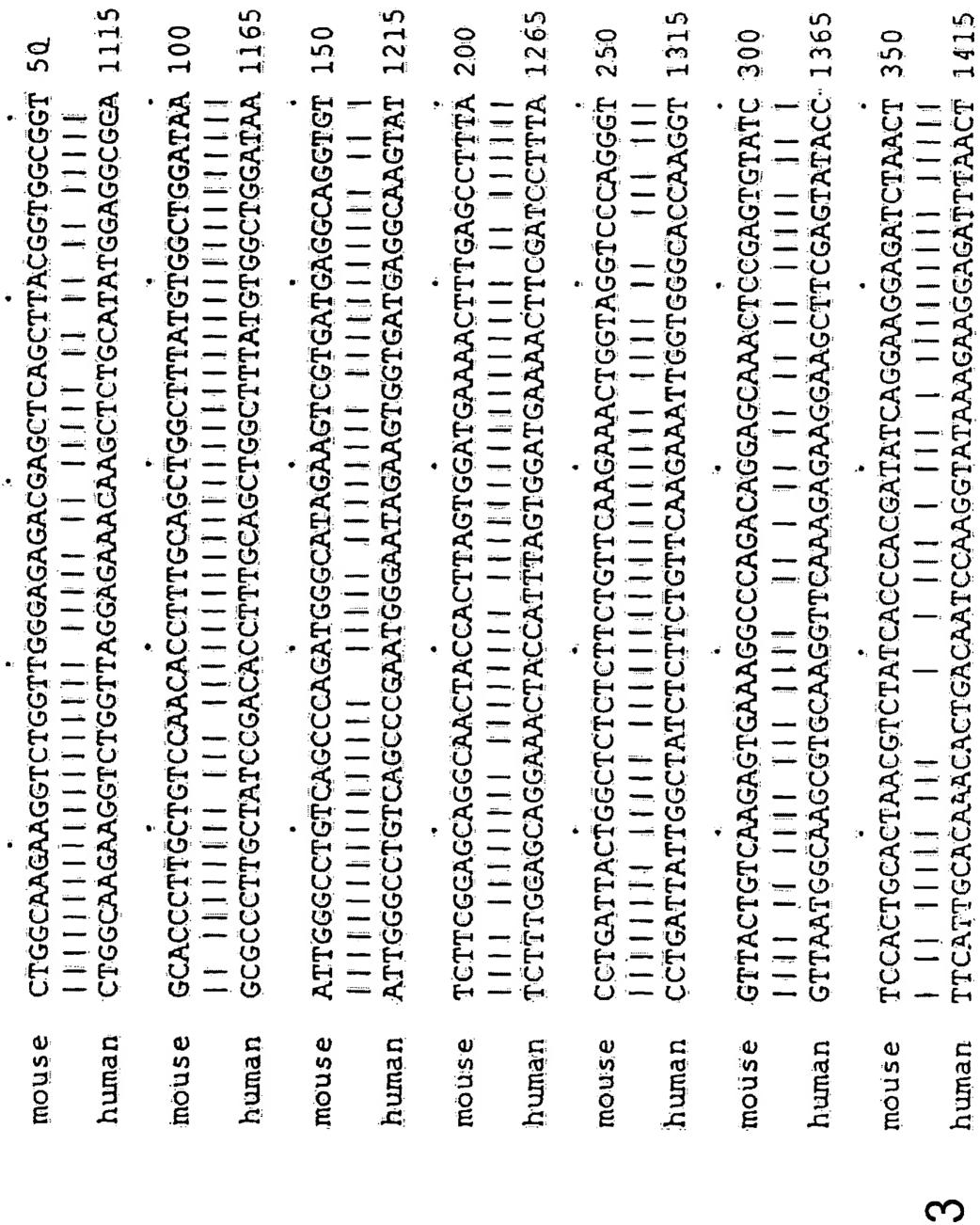


Fig. 13

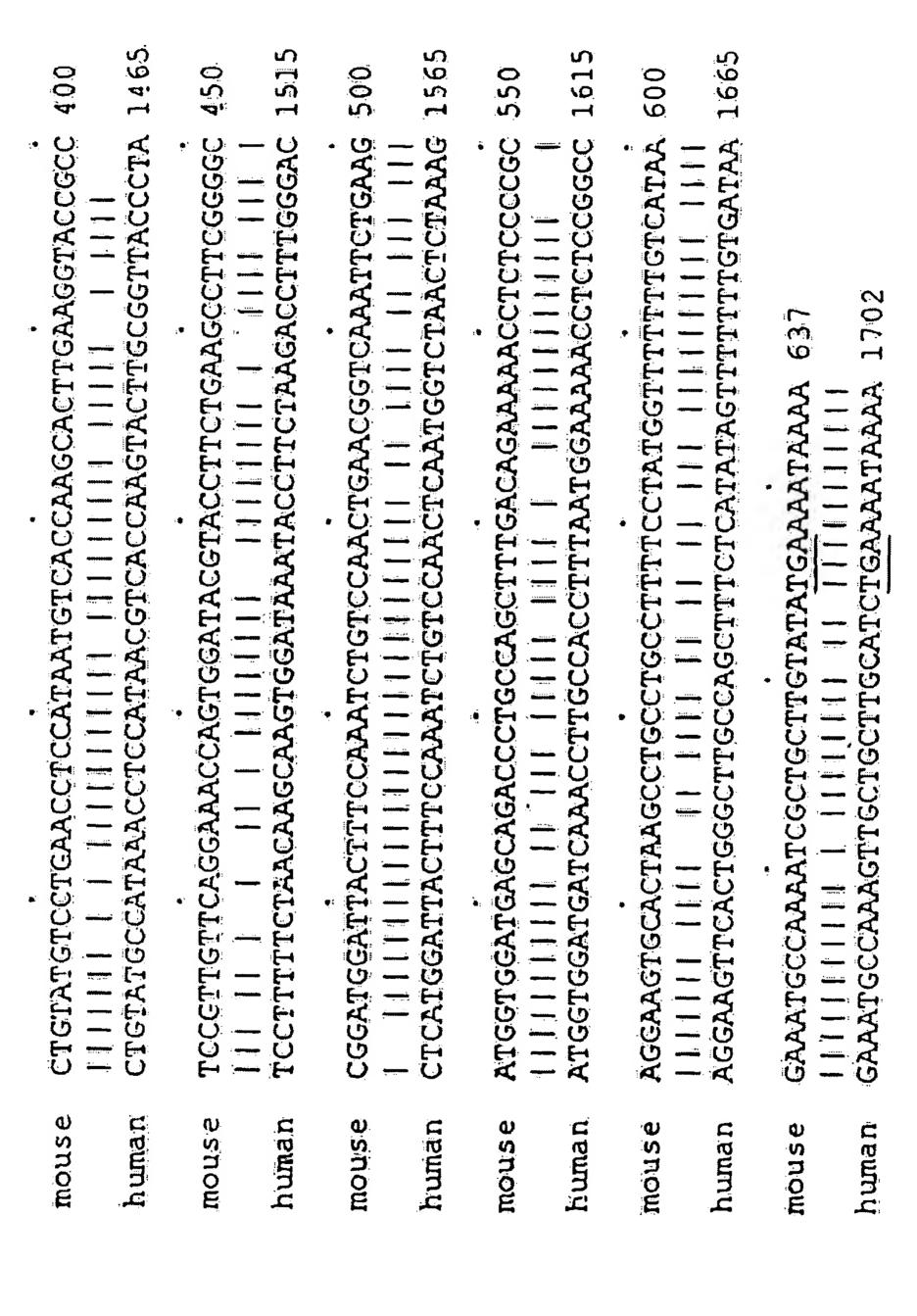


Fig. 13 (Continued)

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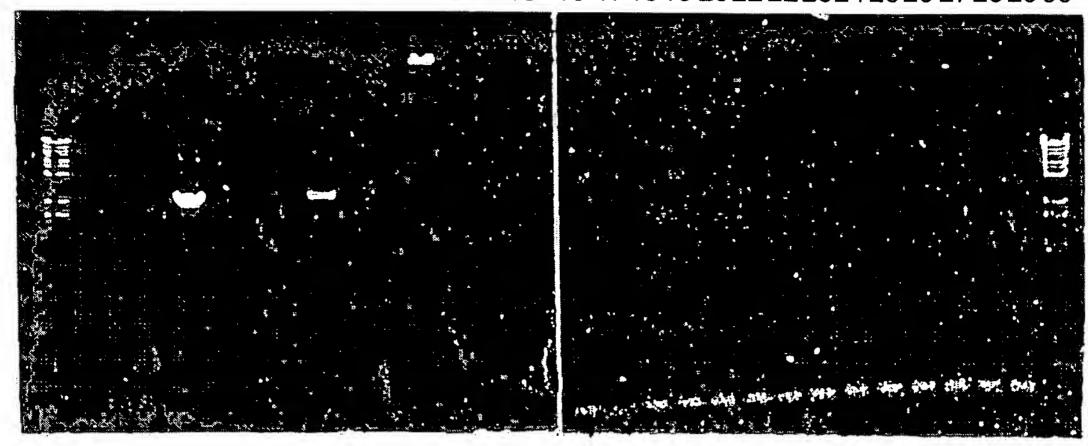


Fig. 14

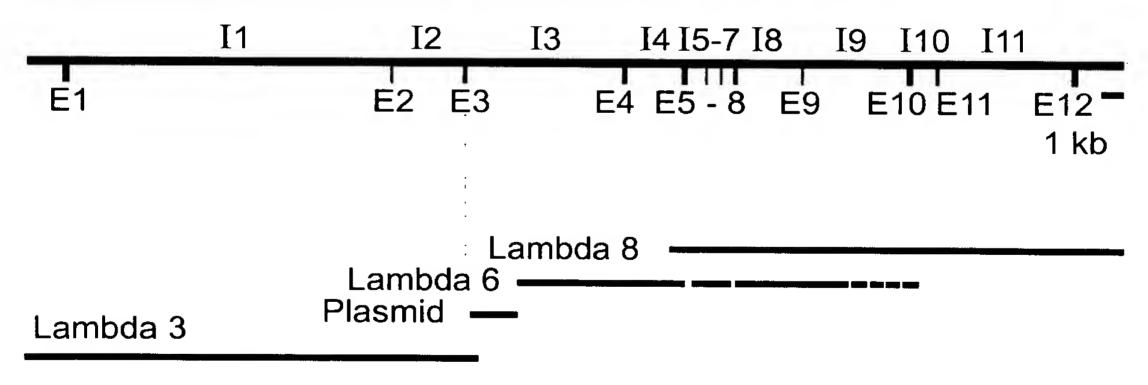


Fig. 15

Fig. 16h

Fig. 16g

Fig. 16j

Fig. 16i

Fig. 161

Fig. 16k

Fig. 16m

Fig. 160

Fig. 16f

Fig. 16e

Fig. 16a

Fig. 16c

REPLACEMENT DRAWING 16/50

Attorney Docket No. 01/21603 Title: A POLYPEPTIDE HAVING...

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Fig. 16a

Fig. 16bb

Fig. 16aa

Fig. 16ee

Fig. 16cc

Fig. 16v

Fig. 16u

Fig. 16s

Fig. 16r

Fig. 16q

Fig. 16x

Fig. 16w

Fig. 16z

Fig. 16y

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	T T W
2750	CTGCGCGCAGCTGGCGGGGGAGCCAGGCCAGGTGAGCCCCAAGATGCTGCT
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2250	caagtgtttataagctagatgggagggaagggatgaatactccattgga
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2100	tgagaagttgataaagaattttgggttggttgatctctttccagctgcagt
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Fig. 16b

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REPLACEMENT DRAWING 24/50

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aagcagaactgcttcaacccggcaagcagaagttgcagtgaagtgagatc	14950
gegecactgeactecagectgggaaacagageaagattetgteteaaaa	15000
caaaacaatgtgatttcctcctctaagtcctgcacagggaaatgttaaga	15050
	15100
tgcttgtcttcctaacagTTCTCCAAA	
GCTTCGTACCTTGGCCAGAGGCTTGTCTCCTGCGTACCTGAGGTTTGGTG	15200
LRTLARGLSPAYLRFG	
GCACCAAGACAGACTTCCTAATTTTCGATCCCAAGAAGGAATCAACCTTT	15250
GTKTDFLIFDPKKESTF	
GAAGAGAAGTTACTGGCAATCTCAAGTCAACCAGGGtgaaaattttta	15300
E E R S Y W Q S Q V N Q	
aagattcactctatattttaattaacgtcagtccgtcatgagaatgcttt	15350
	15400
tococtoatotgacotgtggaggaatotgaacaagaggaggaggcagtgg	15450
gcaggtttccttatcatgatgtttgtcatgttcagtgtgaggcctcacaa	15500
aaaaaaaaaaaaaaaaaaaggcgtcctggatataactgagagctcattg	15550
tacagtaaatattaataaaacagtgattgtagctgaaggatagaactgct	15600
	15650
caaagacacaatgatagattgaaggatatttattctaaatatagaatatg	15700
tgggctccaacgttagattctgatttt	15750
agcaagcttgtcaggggattctgatattgaaaggctgtggccttcacctg	15800
gaaaatttgtcctgtctttcagaagtg	15850
ctatcagacatcaaatggaagttaaatcgtatcttaacaattactaggat	15900
gggcgcagtgactcacacctgtaatcccaacatttggggaggctgaggca	15950
trogggaccagcctgggcaacatagag	16000
agacgttgtctctatttttaataattaagagagaaaaaatactgaaaa	16050
tattgtatacaccactgaattataataatgtgtatatata	16100
tcatatatatatcttttccttctgtt	15
tattttatccaqttatqaaqtatttaqaacaattcatcaqtaattqqqqc	16200

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REPLACEMENT DRAWING 27/50

Attorney Docket No. 01/21603 Title: A POLYPEPTIDE HAVING...

00 50 00 50 00 0 0 0 0 000 0 0 0 ō 0000 S 2 0 2 2 0 50 S 09 9 99 4 5 5 ∞ ∞ 0 Ö 722 5 ω 9 9 O 9 9 Q. 9 9 9 9 9 7 7 cccg ct ct Q Ļ gt U L gtca Ct b D C d Q Ω U Q ctc Ca U O d B て D O U a D Ũ ct B Q \mathcal{D} B Ø U Q g S Q Q b \mathcal{D} B U Q cttgg Ü \mathbf{O} O u Ø O D Q Ø d Ţ U φ U b ð g b D Ü tcct gtt O L ىد U cg O Ct Ct \mathcal{Q} Q Ω Q 1 Q Q 9 Q g ũ t Ç U Ď 9 47 ģ Q u U g D B Q ಹ Ø Q D U ġ Ö D 1 ρ b Ĺ go Ø 4 ಥ D Ct b Ø. a 0 Q M. D agagge O.T. 1 cg Ų O Ø b g O d D g Ø Ø. D Q cct Ca cti Ü à لي L Ü M. ta Ŭ U 4 Ø b ಥ u Q Ŭ act Ü ن $\mathbf{0}$ O \circ 1 g 1 g D d \circ 9 ttttt cddd tg cag gaa ند ccg O Ø T \mathcal{D} g B g لند cccac 9 \circ 5 ಥ D Ą O Ct Ø d Ţ g T) E 9 a Q g **D** , D C β Ca ğ O D) B Ę a U نب ¥ Ü ಡ Q g O Ù 4 D O U u Ø 4 d ccacgccc tct a O O ttgtcca gcctccc U Ø $\ddot{0}$ U ā Ü Ď ď نب O د٠ Ü دد tag att U D Q Q g 1 لنند \mathcal{O} O gttl Cacci atg ttt U Q U 47 Q N ت đ نب U D Ü Ü Ca CC g ф Ø a d U g g ಹ a D D ď D g Ü 9 Ü Ö 1 D ಥ Ø نډ C O g tgi Ū tca \mathbf{O} Ø 0 at Ø Q Q 4 D b د نب T) tttctt Ü B g agtgca gt tg Ü agg Ca(D Ct Ca نډ b d D യ ര b Ü cg a tg N ന Q Ø tg gg Ü ccca Caa b ğ O cca C cat tai t gg 1 b Q B B d 12 47 g ā \circ ctc ā Ü ct cct D ğ Ö cca Ø ia. B O Q U Caa Ċ U at \mathcal{Q}^{\prime} Ø O. ¥ 0 B O ಗ \cup S Ü 9 43. gg Ca ğ cct tgt Q Q O ¥ ىد دن S b O Q Jaagt Jottgi Sotti at Ø D tta \mathcal{D} tccatctg Q ര 9 Ø 4 Ø d U tg. cctg Ct Ca 11 Ct d Ø g g Q î Ca Ca U Ü g \mathcal{D} O U ന് D Ø 1 Ø Ø \Box U b ١ St. Ct Ct Q O Q \wp Ct gt D D D ρ Ø u cctg 11 Ct 9 ğ B g b Ü Ù B Q g S $\boldsymbol{\omega}$ D Ţ بد D Ŭ agge U 4 D Ü CCa tg g ρ Ct Q g g B \mathbf{v} Ca 1 Ø d ata CCC gg O. 9 B d O ىد Д b a ¥ at B \Box O ∇ Q U O b ಥ b Q U Q Ø \mathcal{Q} D a \mathcal{O} Ü Ø \mathcal{O} 4 U Q Q O Ø ٥ Ct g d Œ Ŭ U cg Ct Ø U 4 U D Ct D B 1 S a 9 acci S Ŭ U ¥ ന Q Ū B a \mathcal{Q} b g 1 d ಸ g b g Ŭ b Ü Ď Ŭ D 4 ð \mathcal{O} g Ü g 11 ന $\boldsymbol{\omega}$ a Ø O a $\boldsymbol{\sigma}$ ൯ ند g g g 9 D b \circ g O Q ¥ 0 g O ಹ T Q ð U S Ø Q D 9 B O α U g \mathbf{O} Q Ω Ø 4 4 T 9 9 Ö d b M. 1 L tctttgaat ggcgtttt ggcacaagc tcccacctt cccagctaa ggctgatct aaagtattg tagacttgg agggggatg atcctctgt tgtgcagct gccagcacc acaggatgg gtctggctc tgcagcctc cctgagctc gttgtggtc caatggtto tgtagacag agtagctgg tttttagta aaccttaag agtgtcacc caagcgtga cactgcaga teegeeteg gtattttag gacct ttccagctt taaattga cct

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REPLACEMENT DRAWING 29/50

tecacceaecteagecteceaaagttetgggattaeaggegtgageeaee	19150
tatgaaatatatttttat	19200
tttgatgtttatacccaactgagggatgatgttcccatatctcagttaaa	19250
ct	93
aatgatcttgaagttactatactttgtttgggttagttaacattatttaa	19350
agtatattatttaattaattatctttgtaagattttactgtatactacc	19400
tggagttcaatgtatcagatggatttcaaatttatgtacattttttatgt	945
ataagaaatcagaaaatagcg	950
atgetaatagetaatgttgteetetaaaaaaetttattttgeatttttaa	19550
gagggggatatactctgacactttaataagtgtaattaat	19600
aatttggcatgaggccatttcagatcccattaaaggaatgacaca	19650
taccagagaaccacagaagtaaggccacatttgtaataaatcattatagc	97
tctgctaggagaagacccagttgtattaggtaattaatggatttgctctt	975
cttgggggg	98
aagttttacta	985
aactccagg	066
catagttcctacaccaggggaaatgccttcctttgctaactatgcaacca	995
ggcaatgctaaa	000
acaaacacagaattttatttgcatttgtaaacatttgatttctggctcga	005
acagaaatcttct	010
agtttggggcacctactcattgtagtgacaaatatttcagaagccaatagg	015
tggctgagactggta	020
gaggtagcaaaaggctgctg	025
aaaacaca	03
cccaggctggtgctgtggctcacgcctgtaatcccagcactttgggagg	20350
ctgaggcgggtggattacctgaggtcaggagttcgagaccaacctggcca	20400
aaatacaaaaatta	20450
gcag	0
cttgaatctgggaggcagaggttgtgggtgagccgagattgcgccaccgca	20550

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REPLACEMENT DRAWING 30/50

cgctagcctgggcgacaaa	R	20600
ര	aacaa	20650
gatacaggtaagttttctaa	taacacaggtcctcttgtat	070
taagtagaagatgacaaaa	aacatttgtcatgagaatatagac	20750
taaacctgtttgagcaggaa	gaaaaggaagcaa	20800
gtgtgactgcagaaaggatga	ctcccttattaaagta	08
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ttcttccgttgcctacaccc	aggcccaca	60
catggtacagtccaagggas	aagatctgccatttttttcaatgtgtcat	10
tggttatcttcattccaag	d	10
\mathcal{D}	ggaataagataatgaattgtaagttttaaat	11
gttcttcgtattttggggaa	aaggagtaggctaggt	11
ttttgtttttttttaaag	agtagatgtggc	12
tgtaatcccagcactttgagag	gctgaggcaggtggat	12
ggagttcaagaccagcctggcc	aacacagt	13
aatacaaaaactagccggg	ggettggtggcgtccacctgtagtcccagctac	13
tgcagaggtggaggcaggag	aa	14
agtgagccaagatcatgcca	attgtactccagcctgggcg	14
ctctgtctcaaaaaaaagaga	aaagaaaagaaa	15
actcagtcgtcaatagcctcta	ttccaggagatgttaca	15
tatagggggtgtataataga	tatgtaaattccaagtgca	16
tggaagaatgaagaaatggagg	aagggtaaagtatgagtgcaa	16
aggtttttgaaaatgctataa	tctttgtt	21700
atttagctgtaagggttttt	tgtgatttacagacagttttcaca	17
atttcaaccttggttttatggc	gaaggcatgtgatggtgcttg	18
actttagatccatatctgag	gttcctgtcgggcaa	18
tcatattatagtctataagtggg	agtgggagagttgtgcctggagctcaagtctta	190
tgattrctgatccagggcacttc	cacttcctacaacatgattttgcaatataaaag	1.9
cctataatgtgtgactaaagcag	aagcaggtcactcacccttgtaacagactcta	22000
gtaatggtactgccaccaaacgg	aaacggctgcgtgatattgggcaaagacttacc	22050
ttatttgaatctcagtttcc	cctcctaga	22100

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REPLACEMENT DRAWING 31/50

Attorney Docket No. 01/21603 Title: A POLYPEPTIDE HAVING...

50 00 50 00 50 50 445500000 8899000HHZZRR844 33221 aaag ctc ttac tto ctc C t à ct aataggtccaatagtaatgctgtccaatagatgttgatgtttttttcctt gcaaacttaaaagatcctacagtgcctctgtaaatagcactgcctggtta tagi ď Ü Ç g D gt ctt φ ಹ Q b d O Cg Cg C Q ಥ Ü Ca aatttcagataaattttttttcatgttaattattttct atcatgg D ıctgggat accatattgggcaggctggtctcga Ø Ţ ati ū U Ü att cagcct atttt g ggcca ttttg Q Ct Ca d attgttgccactctcaaaagt tagaacagctaatggtttaaaaagcagagtacagaagttcccaaa acaaccta aatct Ø U Ö 9 aagtttgccagatagatagag ctctttaacaa വ atacatgaaaattggaaggacttattatgcatatgata tg à aa agagttgttt t 9 tg 9 d d saaagtgo satattte gcac aca tgc(ttti \mathcal{Q} Ø attttttttt ctgcacccagcta atggcatg tectecea U dddcd agcatgcct O Q D ccaaa gttg d CC b caaagacttagaa aaattgtaaggtctac ctttacttttttttttgtttttttttttttttttt catca attct gtg Ø tttat Q B d D sctcagcctccca cttaaatagctaa ccti g gccactgcacctggcccct Ca Ca g gaatgaatta Ca aggtga Q gtg gca U p Q Q gtta ctt ctgtg tgctta نه Q ส acttttta gatgtggttttg gtttgag U Ca b tgcca U Ø \mathcal{Q} aaata(ctg gca d gg gctg Ct gcacccagctt O Ø cage Ü aagggtgt acaacacttaaaattat Ø 9 9 act gcal cage ğ cctcccgg φ a cctai cca att cccago U D gggtttc cct gtattttgattatt cattgacatacatg d b acti gtg atcgcagaa S caggt taatto gagti D gttaat tcca B U Q gtta g Q a ğ B 9 a cctt at g gttg D ü Q Q acg O CCa Ct agtagctgggacta ag Ça a N g ctct U b Ø 9 a gagcca Ca ata Ca gg 1 u تد 10 Ç g 5 accto ag 17 b ati d đ Ct D. ati Ca catto b g D Ø t tta agagt¢ttg â aa ttttagtag ttgacctca ggcacctta \mathcal{Q} 47 D Ü a gtggtct Q D 4 t aatacct ġ 41 atccag actgca atgtct cactgo aggcat ccactt gggtct cagcaa atagat gagttg ttaaag ggatga gt tttgtg tgaact taggcf tatagt ccaagt ctttt aatg

Serial No.: 09/776,874 REPLACEMENT DRAWING Inventor: Iris PECKER et al 32/50

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30 S 0 50 5 0 0 0 0 60 9 $^{\circ}$ 8 9 ∞ -3 4 या या ₹, 0000000000 TTGATCTTTGGCCTAAATGCGTTATTAAGAACAGCA GAAGCTCTGTAGATGTGCTATACACTTTTGCAAACT GATTTGCAGTGGAACAGTTCTAATGCTCAGTTGCTCCTGGACTACTGCTC tgtcagaccagagcttctggtatcttcc acagctggagcaaatgaagtcagattgatttttt tttatgctaactaatgacagtctggct cagtttaacaacagaaatagttattcattatgaaa cttcattgtggtgccaatctaaccattaaattgtg caaaaacataattataattatt ACATTTCTTGGGAACTAGGCAATGgtgagtaccc aaggagattccccactagcattatttcttt tgcagtggcgccacctcggctcacttgaagctct gotaattttttttttttttttttt accaggcccggctagcattatttcttat atcteggeteactgeaagetecaceteceaggtt ctgccctcctcggcctcccaaag ttgttt cccaattctct tagtagagacgggtttcaccgtgttagccagg agtti cctgta ctttttttttttttttgagacagagtctcgca gcctcccgagtagctggga D Q ctgtcg tttttaactgaacttg Ø atttttt agcttgcct K tgcatgtggagcactgagctataaattgtggctt gtagctg tctcgct S Z ccctgcacttttag > Q E ttctcctgcctca G tggggt tgtct dedeced aat b 2 tacccatgcattca aaccatagtcctat attttaaattaata tataattaaaatta atttagattatgaa gtcacttgaacaaa tgggatttcattca aatttgtccaattt aactagaatttctt gcgaatctggaggc cgtttttctttag GCTCAGGACTGGAC TTCCAAGGGGTATA gggaacaattcatt tttcttttttt tgcccaggctggag ctcccaaaacgcca aggcacccgccacc ttttttgcatttt gtcttgatctcctg tgggattacaggcg cacttttttttt agtgcagtggcgcc SKGY

Fig. 16q

Attorney Docket No. 01/21603

Title: A POLYPEPTIDE HAVING...

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ccaccacgcccggctaattttttgtatttttagtagagacgggtttca ccgtgttagccaggatggtctctatatcctgaccccatgatctgcccgcc tcqqcctcccaaaqtqqtqqattacaqqcqtqaqccactacqcccqqcc	25000 25050 25100
acactetttttattagcaaatataettetgeetigggeacattett	515
caagtgeteaacaatgeaacttttggaagtgeatgtggcagaaacteetg	25200 25250
gaagtgagaaccagttggagccagcaacgttcccagctccaagttcc	25300
aaccctattatgcttggcaacct	535
cagtttgttttattcatcccttcc	25400
U	25450
cctgcccaagcggtctagaacttgccagtatagaa	25500
ttttttgcaaagaacttg	25550
tattcaaaaca	25600
attaaatgggaaat	25650
aagtettetteetgeteaaaettttt	25700
tttttttttcagacaagatcttgctctgttacccaggctggagtgcagt	25750
ctgggctcatgcaa	25800
cactatgo	25850
tttttttttttgtctggttgtgttgcccaggctgtctcgatctcctggc	25900
cttctaaagtgctgggattatag	25950
ccttttttccaaagtaaatgaa	26000
attagatatggaatatagtctagttcccagatatccatatccattggttt	2.6050
stagacceteat	610
tgtttt	615
ctatgagttttactttacttattttattttatttttgagacagac	620
ctctgtcactcaggctggagtgcggttgcgtgatcatggctcactatggc	26250
actca	30
tagctaa	
ctatgttacccagagtggtctcaaa	40
atgct	26450

Serial No.: 09/776,874 REPLACEMENT DRAWING Inventor: Iris PECKER et al 34/50

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27600 27650 27700 27100 27150 27200 27250 26950 27000 27050 00 0 0 0 655 Õ 0 0 0 **L**) Ó \mathbf{S} 0 99 99 67 89 S 67 4 9 \odot 2222 2 2 3 ctgt actgcc agaattgctgtctttcag TTTCCTTAAGAAGGCTGATATTTTCATCAATGGGTCGCAG TTAGGAGAAGATTTTATTCAATTGCATAAACTTCTAAGAAAGTCCACCTT CTCTATGGTCCTGATGTTGGTCAGCCTCGAAGAAGA U cccaggctggtctcttgaattcctgtgctcaagccatcct cttttcttaaaaaaaaaaaaagattctctctggtagacaa aaggaaattttgacgggttcagaatatcaagggatctgag aagcagtaaccagcccatttctagggaataaactct ttgtgcatatatgtattatatgactgagtgataataaa **tagCTTCCTGAAGGCTGGTGGAGAAGTGATTGATTCAGTT** Q gct cctggttttactttcttgactttgaattacaagttt gaactagaggatgcagaatcacttta D \mathbf{x} $\boldsymbol{\sigma}$ \vdash aga(ta S taaaaaatttttttgtagagatggg agg F L K A G G E V I D S Agtaagtatgtctccttaatactaggaaag gtacaatcatggctcactgcaacttcgacctccca taatattaataaaaaaattttaagttattttaaa cactctgtcagcc aagttagttcattta S N tactgctgtatg tgtctcaagtag gcc ggcatgagcc taaacaatctgctgcctgaat taaaatttgctatcaaaattaggaag 2 aC X Z agaacagt atagctgggact D. Ø G Ca tag ttgcttttaaa tttctcgatatatattttg ggatta tttccttttgagacagagtct ctttatacag \succeq Ø Ø B R ğ Ca cccatctcagtcccaca ttattacctagtattca Ξ cccagagtgcca α $\Omega_{\mathbf{I}}$ tag(tgttat 9 tgttttg atca đ O GCTGAAGAGG tactt atgal D \succ tccaca U ctgga agt AAA cct cct cta 9 catagcgcca tgtaatttgg tttaaataca AACCTAACAG CAAAAATGCA CGGCTAAGAT TAKM ttttcttct gagtgcagtg aagcaatcct atcaccacac ccctgtgttg tccacctcag ccadccacca tcctcaatag ttaccaaaaa gcaaatgtca ttacctgatc catgcgtata atttttttc ACATGGCATC T W H H ctagctttat aattgactgo actccaattt tagtggtttc NA E P I G E ×

Fig. 16s

Attorney Docket No. 01/21603

Title: A POLYPEPTIDE HAVING...

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REPLACEMENT DRAWING 35/50

ccatggaacatataagctaaaaccaattgcttgccaaagaaccagta	27750
L	27800
	27850
tettggtettteeetagtagaaettetetaeetttttttagtaacaggtgag	
tgggagaggtaaggagagataaggtcagcaattaacctaaaagcagaa	
agtaaaatttgttatttttttttctgaatattttctgtgtaatttagCTAC Y	28000
TTTGAATGGACGGACTGCTACCAGGGAAGATTTTCTAAACCCTGATG	28050
Y L N G R T A T R E D F I N P D V ATTGGACATTTTATTTCATGTGCAAAAAGTTTTCCAGGtaatagtct L D I F I S S V O K V F O	28100
agaatccttatttt	28150
gttctaaattctataggtatgtatttacatgtttttctaattttagag	82
aacaagcactatgacttatccactgttagttttccccttagcattgggtc	28250
ttaccccatgtacgtgattagaaatttgaaatatttccaatagcctttag	28300
tagaattaactcacatagatgataagaatgggttggttcacttcatgttc	28350
cttccacagcctactattcaataaaagaaagtttcccaagacctaaatg	28400
actatgaacatatttataactatagagaggggggggtctaggaataca	28450
aagttttgaatgctgttaatcttcaacaccacagttgaaaccacaggtca	28500
gcttttttgcaattaccatggatacttttctgttctatagGTGGTTGAGA V V E	28550
GCACCAGGCCTGGCAAGAAGGTCTGGTTAGGAGAAACAAGCTCTGCATAT	28600
S T R P G K K V W L G E T S S A Y	
GGAGGCGCCCTTGCTATCCGACACCTTTGCAGCTGGCTTTATGTG	28650
tgaagcagctggccttaggggtcagagtgcagctcttct	28700
	28750
	28800
ta	28850
aggatgaattgttcagaattttggcctttaattatggcccataaatat	28900

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REPLACEMENT DRAWING 36/50

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REPLACEMENT DRAWING 37/50

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actggttgggccagattaccggtctgggtggtctcaaatgatccacc	055
aagcactgatettagg	30600
gatgttatccccaggaacaatttggg	30650
aatctctaatgttgtagctaat	30700
agtcctgcaaaggtagacttgtccccaggcaagaagggggtcttttcaga	30750
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tctctt	30900
aatttcctcagttataatttttgcaaaggcggtttcagtcccagctactt	30950
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gagetatgateaegeeaetgeaeteea	31050
ctgtctctaaataaataagtaaataaataaatacataaataa	31100
aagatggtgcaattagaattgagcgattttgtttccaaacctcaagaa	31150
	31200
W L D K L G L S A	
CCGAATGGGAATAGAAGTGGTGATGAGGCAAGTATTCTTTGGAGCAGGAA	31250
RMGIEVVMRQVFFGAG	
ACTACCATTTAGTGGATGAAAACTTCGATCCTTTACCTgtaagtgaccat	31300
N Y H L V D E N F D P L P	
tattttcctaattctagtggagtagattaaagtcaactcaggacctctgg	31350
tgttaacctcctatgaacagtcagtcctctcagtaactagccaaatcatg	31400
agatgatgaattagaaggagccttagatagcatccaatctaacatttttt	31450
ಥ	31500
aagccatttgcagtatagtgtggattttgtttaaaaaggggataatttgaa	31550
caaaataagttg	51600
tacaaagtaaatcaaagttataattgcctacagtacgcaaagcttcaaaa	31650
cattititatgitatgaaattgtaatttaatttaaccttaaaaatgagccag	31700
taccatgtttgcttaaaaatctcatgctaagaatttactatgttgtta	175
ataatcttcaaqatatttatqaataaaqtcttatttctaatccttcct	31800

REPLACEMENT DRAWING 38/50

aactgtatctggtgctaaatcaggaaatgtttcttcccaaaaagcctcgt	31850
ggaagatctgtatgtctaaatatatgtcagggataatacagatgtagccc	31900
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ctattttctaagaataattcctaaaagaattatttgaatgttgtaggaaa	32000
rt a	32050
tggtttgtggatagacttcccaacaaaattgctttttatctatagtgatc	32100
caagcttgtggaacatattagtcatctttttttagaaaattcttagaaaa	32150
gtgatcttgcaaaaatggaatttatctttccccaagtatattctgtcatg	32200
tatagagttaaactaagcatagtaatttcaccagacaaacattcaaaatc	32250
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	32350
aaggttctcagtcagctagaaaatgtgcaagagtaaatggtacccttct	32400
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tgaggtggcaaggcaggtat	32500
tggatccatttttagataaggaagttcaaattgagaagggttgcatga	32550
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actt	32650
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ggggtatgtg	32800
atttatttatttatttatttattttaaaaattgatacaaggtcttactgta	32850
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gcctcccagtgttgggattacagcatgaaccattgtgcccaccaccgatc	32950
cgcagtttttaagaaaacttttactatagaaaattttaatcatataca	33000
aaatacagaggaaagtatatgaacccactttaggagactagaatatgcca	33050
cccaaaatatgccactttggcataaggattatttcgagctaaaggcaac	33100
tgggaagaaacacatagaagaaaagttctctgtccttctccatttgccta	33150
aaagcaggacatgaatcttaaaagtcccccccttccttctaccagga	33200
aaaacaagagttaatcactgaagafaacttcagacccttatcagtgtaga	Ö
gatggcactagaagaatctatattacatacatttattttccttcc	33300
acttgccacccagagactaaaaatccttttcctttgtcatgtctctt	35
tocaaaaatttqctctataaqctqqaqttctaaqccacctctttqaqaat	33400

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REPLACEMENT DRAWING 39/50

tacttgttccctggtattttctgttaacatacatgtattaatacatgt	33450
tcctgttttctgtcttgttacagag	33500
ccatcccaactaagaactaaagagtaggaggaaaatataatttcctcctg	33550
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atatttcagtatgtgttggtggtggctcacacctgtaatcccaacac	33700
tttgggaagctgaggcaggaggatcacttgagcccaggagttcaagacca	33750
gctacggcaacaaaaatcaaaaacttatctgggcatggtggcacatgcc	33800
tgiggiccagciacatgagaggcigaggcaggaggatcgcittagccca	38
ggaggttgaggctgcagtgagctgcattcacaccactgcactccagcctg	33900
ggtgacagagtaagaccatgtctcaaaaaaatacatattttagtatgtat	33950
cctttttgtaaaaacacaatacttttatcatactttaaataataacaata	34000
attecttagtateaceaaatattttgteagtgteteaeatttteettatt	34050
gtctaaaatattgttgatagttattcaaatcagaatccaaacaaggtcca	0
tatattacatttggttgacaagtctcttaagtttgttcatctttaagttc	34150
ttectecetetetteatetettgtaatttattaatgtgaaaaaeggt	0
aatttgttctatagtatttcctacattatägagtttgctacatttattcc	34250
O	34300
ggtagttatacctagaagcttgagtttattcaggtttttaattgtattt	435
ttttgcaagaattctttattatctgcttctggaagcacagaatgtctggt	3.44.00
tgtgtctggttttgatcttgacagctactgatgaccattgcctaatccat	34450
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gatttttttaactgttattttgagacagtgtctcatttcgtttcccaggc	34550
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catcatgiticccagaciggicitigaaciccigggiticaagigatciacc	34750
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cctaaatgaaattatttgtctctaaacagäcagaagttttactttaaaaa	34850

REPLACEMENT DRAWING 40/50

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tggctttgagctttgctttgaattcttggatgaacaataaccaagaatac	34950
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gaattgtgtcctccagtgataaaaagcagcaagcacgatactgctctcag	505
attcatggtggtcacatgtgaggtgaaaaaaaaaaaaaa	35100
ta	35150
cttgccactggtttcattaaataaggacataagtaaagatctattttgt	35200
ctctttctcccaaccacaactagGATTATTGGCTATCTCTGTT	35250
THE PART OF THE PROPERTY OF TH	
CAAGAAATTGGTGGGCACCAAGGTGTTAATGGCAAGCGTGCAAGGTTCAA	35300
K K L V G T K V L M A S V Q G S	
AGAGAAGGATCTTCGAGTATACCTTCATTGCACAAACACTGACAAgtaa	35350
K. R. R. K. L. R. V. Y. L. H. C. T. NT. D. N.	
gtatgaaacaccctttaccaatcatcaagttttagtgggtaagcctgt	35400
aactttactcaaacaccctgttgcatgtgtctatacattgcataagtata	35450
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aacctccgcctcccgggttcaagtgattcttgaagaggagaacaataata	35650
acaacaatattatttcaaaagttgtgaccgcagtttctggagttgagaa	357.0:0
tgctttag	575
gttcctaaatctcaggaatattctctagataggtttcaatctatcattcc	35800
tgataagatgatgataatactaattctagccaaaaaagaccagctacc	35850
atttccgattgttggggactgggaactctggatagtgaggaccccagtag	
gaagtagcgagggaatggtttgaatggataaattcataaaaaatgtcag	
tagatttaattttcttatacatttcagtctttttataaggctaggaaag	36000
ccctgtttttatggtttataattttgaattcacatgaacccacaaaattt	36050
gccttttaccttcctatgtctgaaaatggatagtctggctgg	36100
gat	
ttggtagcatgaacggcaacatttttaattgtgttttcaaaataggagca	36200
cactagoggtotaaaaogatoataaaaagaaggataotaagagggoocaot	36250

Serial No.: 09/776,874 REPLACEMENT DRAWING Attorney Docket No. 01/21603 Inventor: Iris PECKER et al 41/50 Title: A POLYPEPTIDE HAVING...

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gtcattatggatcctaatacttaggatgcattatggattgtcattatgga	36300
tactaatacttaggatcacatttgtaattgagtttttaattgcttaaatt	36350
agatacatattctattaagttaacctctttgcttttagTCCAAGGTATA	36400
P R Y	
AAGAAGGAGATTTAACTCTGTATGCCATAAACCTCCATAATGTCACCAAG	36450
K.E.G.D.L.TLYAINLHN.VTK	
TACTTGCGGTTACCCTATCCTTTTCTAACAAGCAAGTGGATAAATACCT	36500
Y L R L P Y P F S N K Q V D K Y L	
TCTAAGACCTTTGGGACCTCATGGATTACTTTCCAAgtaagtaattttcc	36550
L. R. P. L. G. P H G L L S K	
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agtttggacagggagcaaagacaaagtcaactatatcaagttctaataa	36650
ttcttaatattcaggaaatttatgtatgaatacttactaatatgagtata	367.00
actcatcctaagagictaaagcaaaaggatgigaacacaaactagcagit	36750
atcttagagaataagtttgcatttcaaaataacttgacatatcaagatcc	36800
actcaacgcatttaaattactctaaaaagacataattcttggtaac	36850
acattcactaaagcaaaatatacctttatatataattgctatcaaaggtatg	36900
tgggttggtataaaatatcataccatgtgagatcagtgtgattcctttac	36950
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ttettaagatteteatacaetttggttteaaaaaceaattattgaet	37050
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tottaaagagttaggcatataaaatattttaaggtttotgttcaatgtatg	37150
tiggaaggagtteettteteatgaetatteteatattggageataaaag	37200
agtttacaggcttggcgcagtggctcatgcctgtaatcccaatactttgg	37250
gaagctgaagcaggcagatcacttcagcccaggagtttgagaccagcctg	37300
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tggtggtgcatgcctgtagtcccagctacttgggaagctgaggtgggagg	37400
attgettgageccaggggggtcatggetgeagtgagetgtgatggtgeet	37450
ctgtcacccagcctgggtgacagagtgagaccctgtctcaaaaaaataaa	37500
taaataaaaattaagagtttacaaaattctcaccatctcccatcttt	37550

Serial No.: 09/776,874 REPLACEMENT DRAWING Attorney Docket No. 01/21603 Inventor: Iris PECKER et al 42/50 Title: A POLYPEPTIDE HAVING...

gcaaatgccacataagtgatgtgttccaggactattagcctcggaacctg	37600
(C)	37650
acattatttacactgggtactgctcttttttttttcccctctatgcttt	37700
taacatgtaataggaaaaaggc	37750
cccaagagcctttccaacatagcct	37800
tagacattttttttttttttttttttttttttttttttt	37850
gagtgcagtggcgtgatc	790
ttcaagcaa	795
gcatcaccacgcctggctaa	800
gtgggccag	805
ctcccaa	810
ctattacattctgatcaca	815
tcatgttttataattggaaaactggtgaaattatagacaatgttttgttc	820
tattacttacactcttctgtc	825
aaattttgcaaaatagtatcctagataagtttatgagtgcacagtctgta	830
gttaaacaacagtca	835
tgaggcgggg	840
cacageteactgeag	845
cagcettetgagt	850
aattttttaactttttgtag	855
cgatgtctcattatgttgcccaggctggtctcaaactcctaagctcaagt	38600
gatettecteageeteceaaagtgetgggattacaggeatgaaaaetge	865
acceagecetaaaattattagggteetgeatagtaagaetttaataaat	870
atttaaatgaacatctggtttttttaaaaaaaaatagagacaaggtctc	875
actatattgcccaagctggtctcgaactcctggactcacgcaatcctgct	880
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ggctgagtgaacatattttaacataaaggccgtattttatatttatctc	38900
teegeegaatetgttgettget	895
toottocagottoatttoatotgaaatttgacaaacatottotatttott	39000
tgtcgtcatgttattgacttcagaatataaaaataaaacactatacccaaa	39050
ttaaagccccaccctcattgcccagcctgatgtgaaaataatcagcataca	39100

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REPLACEMENT DRAWING 43/50

Attorney Docket No. 01/21603 Title: A POLYPEPTIDE HAVING...

0000000 65 70 75 ō 50 00 0 0 5 0 3 50 445 $\infty \infty \omega \omega \omega$ 20 3 \sim 000 0 0 0 0 0 0 **V** gt ctU gg ac U at שים Ct U U Q Q Ct O Q b đ T انب £1 Q b ಡ g B d ಹ O U Q α U 4 T U b u gg Ct U U C ಥ Ø catccttgtgtg D actaa Ø മ g M tg ϕ Ø Ü đ نډ ಥ Ω Q O ā Ω, Ø 11 D ത ¥ atd cccati catt Ŭ 1 9 ದ O δ Ø u 1 Ø Ø g a る rgtccat gttata ctal ctg ttt age ga Ø Ø aC ta b ı d ρ O g aacctgta b $\boldsymbol{\omega}$ gti b Ct Ca Ca at ρ δ ď ctt Ct B ربد b 11 Q U Ø D a Ø ccta g aga ga ag Ü Q $\boldsymbol{\omega}$ đ d Ö d ctaggca D 1 gtatac gtetta Ü CCa gatttctt gtgtatctaaacatatctaaaacataga U. b ğ Ω tggca atgcg ttg atgt tgati C Ca gtt Q Ø Ü ggtg caat atg(gtg g d ند ctt Ü tg Ü \mathcal{Q} Ca B Q tg Ca g Ą a Ø a attt tg aaa 1 d b Ø Q Ũ gttataa taactct بد Ø b Û ctag ata ctt ati ac Ü ğ a a Ö Ø 1 O 9 Ø Cg р Q Û agget Ü U Ü 9 catt d ρ Q d 4 cttaacaca ctgtat 47 atggi taa ct. at cttat tattt ٥ **D** tttct \mathcal{Q} ಥ ๗ Ø Q attg aat gtci ag gag U aaatat نب D 1 IJ ಥ B ataggtg Ø tg aC m ർ Œ 4 B đ gtg ũ atga Ø D ಹ Q Ø d gtca aca Ü $\boldsymbol{\sigma}$ 1 B B ρ دد ಥ acctag gctcct caccatgo gtgi tgct ag Ca aa B Ø 4 b ٽډ \Diamond d Q O gac gta cag tatg gaca 5 Ü د١ ್ರಗರ 9 agggt Ct acti gta ggaacca 9 Ø ಹ ¥ $\boldsymbol{\sigma}$ aatgtgtcga tacacaaacc agtttt tgi ct ag gga tg ta Ĺ ı D B acatca 9 atg cg 4 B D Ca ¥ Ø agcctgtt Ø ¥ Ø Ø a g ð Q Ø 0 atí aa D b بد O T cttatgtggc B at g atctt actea C B ٽډ gg Ca 99 U d O b O B T u Ct ttt Ç Θ g Ļ atatac B B D Q cta Ø att U $\boldsymbol{\iota}$ Q る u 4 Q U T 11 N gaatat atcal ga tg atc tc Ø rd U ŭ ttatcctttta Ct U O d ڏڼ D aa Ü Ct gtt attt (Q) $\boldsymbol{\omega}$ a ctt ಹ d at \mathcal{Q} ttcccctt ď D Ø Ú g 4 ω ಹ a ىد D ctt ag Ç Ç 1 \mathcal{D} \mathbf{O} U L Ø aa σ نب g N r D Ca Ü ø D g ಡ نډ g Ø $\boldsymbol{\omega}$ gtagtte attccg ctttt gtga ctt aaaa cg \mathbf{O} d ಗ Ø Ø ಹ دب d a ¥ Q \mathbf{O} Ţ gttt atg cta ctg gaa g u Ø Ø ಥ ىد ಥ \circ Ü a a act gg gg Ď Ct دډ ð D t Ď B B đ tg Ø g ند Q d Ø 4 Ü 3 g ത Ø ಇ Ø Ø acacagg Ø g tatgtag Q d **D** Ü M d d D g aacctc agtaaa ttatag tatacg cttatc tggcat tcactg tgatta tgtagc cttgca taaata tacatg gctcta ggagat aaacaa aaatat gggtgg ggatac gttact gttgtg agatga taggtt ataatt taggct atcate tgttaa accaaa ttaag

REPLACEMENT DRAWING 44/50

Attorney Docket No. 01/21603 Title: A POLYPEPTIDE HAVING...

TGCTTGCATCTGAAAATAAATATATACTAGTCCTGACACTGaatttttcaa
TTGCCAGCTTTCTCATATAGTTATGTCCAAAGTTGCCAAAGTTGCCAAAGTTGCCAAAGTTGC
CCTTGCCACCTTTAATGGAAAACCTCTCGGCCAGGAAGTTCACTGGGC T L P P L M E K P L R P G S S L G
CAGATCTGTCCAACTCAATGGTCTAAACTCTAAAGATGGTGGATGATCAAA
aaaaaaaatttatttggtctaaaaaagatttcatgacttttgtagcagc atgggtggggcatgcaccacttggttaactcggtgtatcttttctcctttg
gcctaagtgatatagtgttgaaatacaagttatatataatataggctgccac
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aataaaatagccaccattccagaagttgtgtcatgtttatcctttttata
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ccactgtgctcggcctaatcttacaagttttcaatatttaaagagtgcta
ccaaaqtqctqqqattacaqqt
agatggagttttgccatgttggccaggctgatcttgaactcctggcc
ccd
<u>D</u>

Fig. 16cc

gtcagtgct 42000 ctaataata 42050 gcatgttt 42100 ttatttatt 42150	gtgcgat 4220 ctgagta 4225 tattttt 4230 ctcctgt 4235	ttgag 4245 catag 4250 tagcc 4255 ttttt 4260 qqtcc 4265	ggtgctgg 427 gatgttac 427 tggggaca 428 aatggctg 428 cgaggcag 429 catggtga 429	cccaggag 43 cctgggtg 43 gtatatga 43 ttatgagt 43 ttagaaga 43 ctatctat 43 tcggtttt 43
yeardraggagaactcaggaacactggaacactgt tgcaaagcaactagtgggtgcttgagagacactgggacactgt agatttagcacagtattttgatctcgctaggtagaacactgct atagctaataataccttgttccaaatactgcttagcattttgc acttttatctaaggttttgtttt	tcacccaggctggagtgcc gcaattctcctgcctcagc caccacgccagctacttt tattggccaagctggtctc	tgggattacaggtgtgagccaccacccagcagtgtttt cagggtatcattctgttgcccaggcttgagtgcagtggtg tcactgcagccttttaactcctgggctcaagtcatcctc cccaagtagctaggaccacagacacatgccatcacattg	ctccaccttggccttcca gtacagcaggagatcattt cgaaagactataatacctg tttatttaaagttattaaa tcctagcactttgggaggc ttgagaccagcctggccaa	teccagetacttgggaggetggggaggagattacttgaa cagaggttgcagtgaggetggggaggagattacttgaa cagagagagttecaggaageaaggaagttattaaaaat tgctcctaatatggtcaggaageaaggaaggatata ttaagaagtgettagetgtatattttatetttcaaaatgta tttagaattetttecttcatgtgeeatetetacaggeace ageatactgeegttacegtgaaactggttgtaaaagagaaa tgcacettaaaaagacagetagattttgetgtttett

Fig. 16dd

REPLACEMENT DRAWING 46/50

ctttgtcagcaatatgtgtgagaggacagattgttagatatgatagtat	43450
aaaaaatggttaatgacaatteagaggegaggagattetgtaaacttaaa	43500
attactacaatgaattgatttgtcaagagataaattttagaaaacac	43550
ccaataccttataactgtctgttaatgcttgctttttctctacctttctt	43600
cettgetteagttgggaagetttggetgeaagtaacagaaacteetaat	43650
tcaaatggcttaagcaataaggaaatgtattcccacataactagacgt	43700
tcaaacaggccaggctccagcacttcagtacgtcaccagggatctgggtt	43750
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totggtagcatgatggctgtagctgtteatgggccccttcaaacctcat	43850
ageaaccagaggaagaaatgagccaftttttttgagteteefteatagact	43900
Egaataactetttteagagetteteagagetteteagaacateteteetgtete	43950
cteatgtettattgttcagaaatgggtaatgtggccatttcaeeagteac	44000
tgocaacaacaacgaggatcoctataattattgoctotogagtaaccetttogaa	44050
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ttcccct	44150
treaaatgtatgeetgttatggatatagtatettaaaatttttttt	44200
aatagetttaggggtacacactttttgettacaggggtgaattgtgtagt	44250
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	44350
ctgagtetegaacatecettataceaetgtgtgtatgttettgtgtaeetae	44400
agotaggettecaettataagtgagaacatgcagtatttggtttetccatt	44450
cotgagitacttocottaggataacagoococogttocgtocaagttgot	44500
gcaaaatacattattettettatggetgagtaatagtecatggtacata	44550
tataccacattttctttatccacttatcagttgatggacacttaggttaa	44600
ttecatteaattteatteaatttaagtatatttgtaaggagetaagetg	44650
a a a a a ttttagatottto a a ta ctotta a atttta ta to ta a g to g	44700
Ettteatatttcacatttgaaataaagtaattttataaccttgatatt	44750
gtatgactattetttagtaátgtáagócetacagáctccfacatítegga	44800
accactaging intercaceering that actain day are confega	44898

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50 LDFFTQEPLH LEFYTKRPLR LEFYTKRLFQ	100 YLRFGGTKTD YLRFGGTKTD	150 RLEWPYQEQL QVEWPFQELL	200 LIRTADLOWN LIRTPDLRWN	250 QLGEDYIQLH QLGEDFVELH	300 DSVTWHHYYL DSLTWHHYYL
RPAQAQDVVD GTAPTDDVVD GTAPTKDVVD	RTLARGLSPA RALARGLSPA RALSRGLSPA	SI PPDVEEKL PVSAAVLRKL RVSADVL~~~	GLDLI FGLNA GLDLI FGLNA	KKADIFINGS KKAHILIDGL	SFLKAGGEVI SFLKAGGEVI
LGPLSPGALP LGALAQGAPA LRALTQGTPA	FLILLGSPKL FLTFLGSPRL FLTFLSSPRL	QVNQDICKYG QVNHDICRSE QDNNDICGSD	DVLYTFANCS DMLYSFAKCS	ELGNEPNSFL	PRRKTAKMLK PRGKTVKLLR
PPLMLLLGP RLLLLWLWGP ~LLLLWLWGR	IDASLATOPR IDASLATOPR IDASLATOPR	TFEERSYWOS TSEERSYWKS TSEERSYWOS	KNSTYSRSSV KNSTYSRSSV	CSSKGYNISW	AKLYGPDVGQ AKLYGPDIGQ
MLLRSKPALP	LVSPSFLSVT SVSPSFLSIT SVSPSFLSIT	FLIFDPKKES FLIFDPDKEP FLIFDPNNEP	LLREUYQKKF	SSNAQLLLDY	KLLRKSTFKN KLLQRSAFON
human mouse rat	human mouse rat	human mouse rat	human mouse rat	human mouse rat	human mouse rat

Fig. 17

REPLACEMENT DRAWING 48/50

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	ESTRPGKKVW KEITPGKKVW	MRQVFFGAGN MRQVFFGAGN	LRVYLHCTINT	RPLGPHGLLS KPSGPDGLLS	FEVIRNAKIA FEVIRNAKIA FEVIRNAKIA
	SSVQKVFQVV LSVQKILKVT	LSARMGIEVV	ASVQGSKRRK SRVKGPDRSK	SNKQVDKYLL FRKPVDTYLL	SLGLPAFSYS ALSLPAFSYG SLSVPAFSYG
**********	LSSDALDIFI	AGEMWLDKLG	KKLVGTKVLM KKLVGPRVLL	TKYLRLPYPF	LMEKPLRPGS LTEKPLPAGS LTEKPLPAGS
******	NGRTATREDF NGRIATKEDF	GAPLLSDTEA	LPDYWLSLLF LPDYWLSLLF	TLYAINLHNV TLYVLNLHNV	KMVDEQTLPP KMVDEQTLPA KMVDEQTXPA
דמ ר	human mouse rat	human mouse rat	human mouse rat	human mouse rat	human mouse rat

Fig. 17 (continued

Serial No.: 09/776,874 REPLACEMENT DRAWING Inventor: Iris PECKER et al 49/50

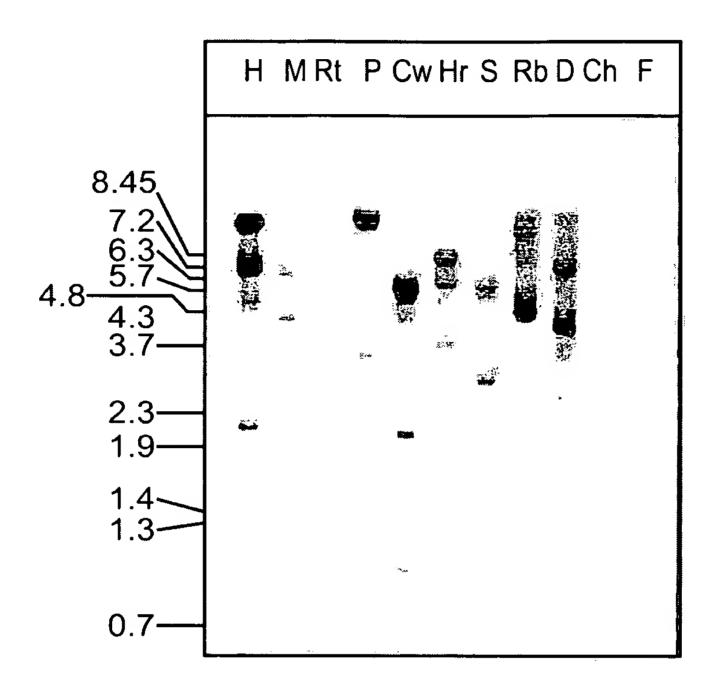


Fig. 18

IMLLRSKPALPPPLMLLLIGPLGPLSPGALPRPAQAQDVVDLDFFTQEPLHLVSPSFLSVT| 60 EEE HHH EEEE PHD | EEEEE | I DANLAT DPRFLILLGSPKLRTLARGLSPÄYLRFGGTKT DFLIFDPKKESTFEERSYWQS| 120 HHHHE НННННН PHD TEEE EEEEE EEEEE нинини |QVNQDICKYGSIPPDVEEKLRLEWPYQEQLLLREHYQKKFKNSTYSRSSVDVLYTFANCS| 180 нинининининин PHD | HHHHHHHH EEEEEEEEEE нининин IGLDLIFGLNALLRTADLOWNSSNAQLLLDYCSSKGYNISWELGNEPNSFLKKADIFINGS | 240 EEEEE HHHHHHH EEEE PHD | |QLGEDYIQLHKLLRKSTFKNAKLYGPDVGQPRRKTAKMLKSFLKAGGEVIDSVTWHHYYL| 300 нининининин EEEEEEEEE PHD | нинининининини INGRTATREDFLNPDVLDIFISSVQKVFQVVESTRPGKKVWLGETSSAYGGGAPLLSDTFA| 360 HERHHAHHHHEEEEEE EEEEEE нининин PHD | |AGFMWLDKLGLSARMGIEVVMRQVFFGAGNYHLVDENFDPLPDYWLSLLFKKLVGTKVLM| 420 нинининини EEEEE PHD | HHHHHHHH EEEEE нини инининини LASVQGSKRKLRVYLHCTNTDNPRYKEGDLTLYAINLHNVTKYLRLPYPFSNKQVDKYLLI 480 EEEEEE EEEEE PHD | EEE E EEEEEEE ННННННН [RPLGPHGLLSKSVQLNGLTLKMVDDQTLPPLMEKPLRPGSSLGLPAFSYSFFVIRNAKVA] 540 EEEEEEE EE PHD | HH EEEEEEE EEEEE 543

REPLACEMENT DRAWING

50/50

Attorney Docket No. 01/21603

Title: A POLYPEPTIDE HAVING...

Serial No.: 09/776,874

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PHD |

Inventor: Iris PECKER et al

Fig. 19